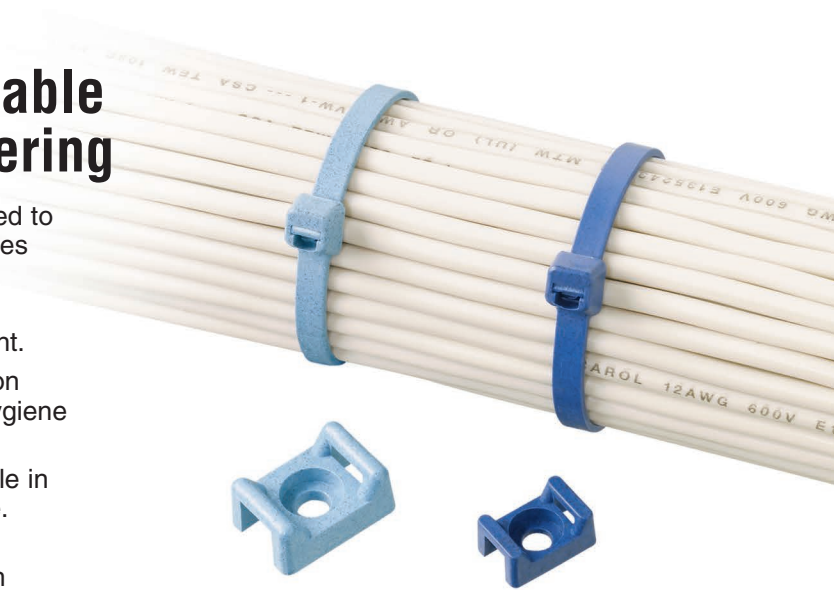


# Metal Detectable and Antimicrobial Metal Detectable Cable Ties and Mounts Offering

- Metal Detectable Cable Ties and Mounts are designed to help the food, beverage, and pharmaceutical industries meet product manufacturing safety standards.
- Metal impregnated material, these metal detectable products are identifiable by metal detection equipment.
- Compliant with the U.S. Food and Drug Administration HACCP\* standards and the European Union (EU) hygiene monitoring regulations
- Metal Detectable Cable Ties and Mounts are available in Antimicrobial Nylon 6.6., Nylon 6.6, or Polypropylene.
- Panduit Cable Tie Installation Tools temporarily hold the cut-off tips to help further prevent process stream contamination.



\*HACCP = Hazard Analysis and Critical Control Points – a systematic preventive approach to food and pharmaceutical safety that addresses hazards as a means of prevention rather than finished product inspection.

## Key Features

## Benefits

### Cable Ties and Mounts

<b>Metal impregnated material</b>	Allows a cable tie or cable tie mount to be identified by metal detectors helping to reduce contamination in finished products  Contributes to compliance of manufacturing standards and HACCP regulations to demonstrate due diligence for consumer safety and quality inspections
<b>Choice of polypropylene or nylon material</b>	Suitable for use in a variety of environments, including areas subjected to harsh cleaning solvents providing long term durability (see material properties chart on page 2)
<b>Choice of Antimicrobial Material</b>	Suitable for use in Food and Beverage facilities, protects against bacteria contamination. (see material properties chart on page 4)
<b>Blue color</b>	Distinct color per common industry practices provides easy identification on conveyor belts and in finished products, reducing waste due to product contamination

### Cable Ties

<b>One-piece cable tie design with locking wedge</b>	Provides low thread force for easy and reliable installation which improves productivity and reduces the potential for operator fatigue
<b>Curved tip</b>	Easy to pick up tie from flat surfaces; allows faster initial threading
<b>Smooth, round edges</b>	Safe and easy for installers to use, won't damage cable

### Mounts

<b>Cradle design mount</b>	Holds cables securely in place; provides maximum stability for cable bundle
<b>Low profile design mount</b>	Keeps bundle close to mounting surface and conserves space

# Antimicrobial Metal Detectable Cable Ties and Mounts

## Ordering Information

### Antimicrobial Nylon Metal Detectable Cable Ties and Mounts

- Compliant to ISO 22196 Standard and CFR-21, HARPC (mandated by FDA) and maintaining GMP
- Offers food and beverage facilities protection against bacteria contamination

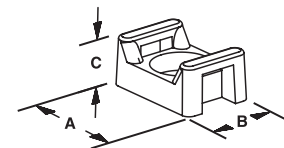


#### Cable Ties

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Head Height In. (mm)	Head Width In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Tools	Std. Pkg. Qty.*
<b>Miniature Cross Section</b>									
PLT1M-C86A	3.9 (100)	0.098 (2.5)	0.044 (1.1)	0.186 (4.8)	0.188 (4.8)	0.87 (22)	18 (90)	GTS-E, GS2B-E	100
<b>Intermediate Cross Section</b>									
PLT2I-C86A	8.0 (203)	0.135 (3.4)	0.047 (1.2)	0.180 (4.6)	0.240 (6.1)	2.00 (51)	30 (133)	GTS-E, GS2B-E	100
<b>Standard Cross Section</b>									
PLT2S-C86A	7.3 (186)	0.190 (4.8)	0.057 (1.4)	0.240 (6.1)	0.320 (8.1)	1.85 (47)	50 (222)	GTS-E, GS2B-E, GTH-E, GS4H-E	100
PLT3S-C86A	11.5 (291)					3.00 (76)			100
PLT4S-C86A	14.4 (366)					4.00 (102)			100
<b>Light-Heavy Cross Section (Straight Tip)</b>									
PLT3H-L86A	11.1 (282)	0.300 (7.6)	0.075 (1.9)	0.360 (9.1)	0.480 (12.2)	3.00 (76)	120 (534)	GTH-E, GS4H-E	50
PLT4H-L86A	14.4 (366)					4.00 (102)			50

#### Cable Tie Mounts

Part Number	Used With Cable Ties	A Width In. (mm)	B Length In. (mm)	C Height In. (mm)	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.*
TM2S8-C86A	Min., Int., Std.	0.630 (16.0)	0.422 (10.7)	0.275 (7.0)	0.325 (8.3)	#8 (M4) screw	100
TM3S8-C86A	Std.,	0.867(22.0)	0.614 (15.6)	0.373 (9.5)	0.325 (8.3)	#8 (M4) screw	100
TM3S10-C86A	Lt. Hvy.				0.385 (9.8)	#10 (M5) screw	100



\*Order number of pieces required in multiples of standard package quantity.

#### Quality Assurance

All cable tie and mount packages contain a quality control number for complete product traceability; each lot passes metal detection as part of final product verification.

# Metal Detectable Cable Ties and Mounts

## Ordering Information

### Nylon Metal Detectable Cable Ties and Mounts

- Excellent solution for general purpose maintenance and repair applications
- Ideal for use in control panels and overhead cable runs

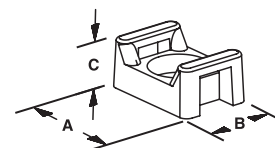


#### Cable Ties

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Head Height In. (mm)	Head Width In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Tools	Std. Pkg. Qty.*
<b>Miniature Cross Section</b>									
PLT1M-C86	3.9 (100)	0.098 (2.5)	0.044 (1.1)	0.186 (4.8)	0.188 (4.8)	0.87 (22)	18 (80)	GTS-E, GS2B-E	100
<b>Intermediate Cross Section</b>									
PLT2I-C86	8.0 (203)	0.135 (3.4)	0.047 (1.2)	0.180 (4.6)	0.240 (6.1)	2.00 (51)	30 (133)	GTS-E, GS2B-E	100
<b>Standard Cross Section</b>									
PLT2S-C86	7.3 (186)	0.190 (4.8)	0.057 (1.4)	0.240 (6.1)	0.320 (8.1)	1.85 (47)	50 (222)	GTS-E, GS2B-E, GTH-E, GS4H-E	100
PLT3S-C86	11.5 (291)					3.00 (76)			100
PLT4S-C86	14.4 (366)					4.00 (102)			100
<b>Light-Heavy Cross Section (Straight Tip)</b>									
PLT3H-L86	11.1 (282)	0.300 (7.6)	0.075 (1.9)	0.360 (9.1)	0.480 (12.2)	3.00 (76)	120 (534)	GTH-E, GS4H-E	50
PLT4H-L86	14.4 (366)					4.00 (102)			50

#### Cable Tie Mounts

Part Number	Used With Cable Ties	A Width In. (mm)	B Length In. (mm)	C Height In. (mm)	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.*
TM2S8-C86	Min., Int., Std.	0.630 (16.0)	0.422 (10.7)	0.275 (7.0)	0.325 (8.3)	#8 (M4) screw	100
TM3S8-C86	Std.,	0.867	0.614	0.373	0.325 (8.3)	#8 (M4) screw	100
TM3S10-C86	Lt. Hvy.	0.867 (22.0)	0.614 (15.6)	0.373 (9.5)	0.385 (9.8)	#10 (M5) screw	100



\*Order number of pieces required in multiples of standard package quantity.

#### Quality Assurance

All cable tie and mount packages contain a quality control number for complete product traceability; each lot passes metal detection as part of final product verification.

# Metal Detectable Cable Ties and Mounts

## Ordering Information

### Polypropylene Metal Detectable Cable Ties and Mounts

- For use in processing and packaging areas where aggressive acid and alkaline chemicals are used to clean the equipment
- Excellent chemical resistant cable tie and mount solution for food and pharmaceutical processing equipment manufacturing applications

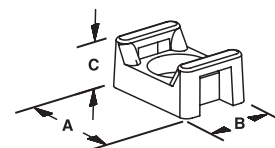


#### Cable Ties

Part Number	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Head Height In. (mm)	Head Width In. (mm)	Max. Bundle Diameter In. (mm)	Min. Loop Tensile Strength Lbs. (N)	Recommended Tools	Std. Pkg. Qty.*
<b>Miniature Cross Section</b>									
PLT1M-C186	3.9 (100)	0.098 (2.5)	0.044 (1.1)	0.186 (4.8)	0.188 (4.8)	0.87 (22)	15 (67)	GTS-E, GS2B-E	100
<b>Intermediate Cross Section</b>									
PLT2I-C186	8.0 (203)	0.135 (3.4)	0.047 (1.2)	0.180 (4.6)	0.240 (6.1)	2.00 (51)	18 (80)	GTS-E, GS2B-E	100
<b>Standard Cross Section</b>									
PLT2S-C186	7.3 (186)	0.190 (4.8)	0.057 (1.4)	0.240 (6.1)	0.320 (8.1)	1.85 (47)	30 (133)	GTS-E, GS2B-E, GTH-E, GS4H-E	100
PLT3S-C186	11.5 (291)					3.00 (76)			100
PLT4S-C186	14.4 (366)					4.00 (102)			100
<b>Light-Heavy Cross Section (Straight Tip)</b>									
PLT3H-L186	11.1 (282)	0.300 (7.6)	0.075 (1.9)	0.360 (9.1)	0.480 (12.2)	3.00 (76)	60 (267)	GTH-E, GS4H-E	50
PLT4H-L186	14.4 (366)					4.00 (102)			50

#### Cable Tie Mounts

Part Number	Used With Cable Ties	A Width In. (mm)	B Length In. (mm)	C Height In. (mm)	Counterbore Diameter In. (mm)	Mounting Method	Std. Pkg. Qty.*
TM2S8-C186	Min., Int., Std.	0.630 (16.0)	0.422 (10.7)	0.275 (7.0)	0.325 (8.3)	#8 (M4) screw	100
TM3S8-C186	Std.	0.867 (22.0)	0.614 (15.6)	0.373 (9.5)	0.325 (8.3)	#8 (M4) screw	100
TM3S10-C186	Lt. Hvy.				0.385 (9.8)	#10 (M5) screw	100



\*Order number of pieces required in multiples of standard package quantity.

#### Technical Information Chart

Material Properties	Antimicrobial Nylon 6.6	Nylon 6.6	Polypropylene
Max. Continuous Use Temperature per Test Method UL 746B	185°F (85°C)	185°F (85°C)	239°F (115°C)
Tensile Strength	High**	High**	Moderate**
Water Absorption (24 hours) per ASTM D570	1.2% (absorbs water)	1.2% (absorbs water)	0.1% (resists water absorption)
Chemical Resistance			
Inorganic and Organic Acids	Good	Good	Excellent
Alkaline Cleaners	Good	Good	Excellent
Disinfectants and Sanitizers	Good	Good	Excellent
Bacteria Resistance	Excellent	N/A	N/A
Color	Light Blue	Light Blue	Dark Blue

Note: Polypropylene material is recommended for use with strong alkaline and acid based cleaners that are used in high concentrations and where extended cleaning soak times are the norm. In applications where temperatures run over 239°F (115°C), stainless steel ties and mounts are recommended (see back page).

\*\*For exact Minimum Loop Tensile Strength information for each part number, please refer to table (above and on next page).

# Metal Detectable Cable Ties and Mounts

## Cable Tie Installation Tools

Metal Detectable Cable Ties can be installed using Panduit GT series of ergonomic hand tools that capture cut-off tips of the ties during installation to help prevent product contamination. Panduit cable tie installation tools provide consistent results and speed installation to reduce installed cost.



### Additional Benefits:

- Flush tie cut-off eliminates sharp edges and improves worker safety
- Lightweight, ergonomic, comfortable and easy to use



**GTS-E**

Installs PLT1M, PLT2I, PLT2S, PLT3S, PLT4S cable ties.



**GTH-E**

Installs PLT2S, PLT3S, PLT4S, PLT3H, PLT4H cable ties.



**GS2B-E**

Installs PLT1M, PLT2I, PLT2S, PLT3S, PLT4S cable ties.



**GS4H-E**

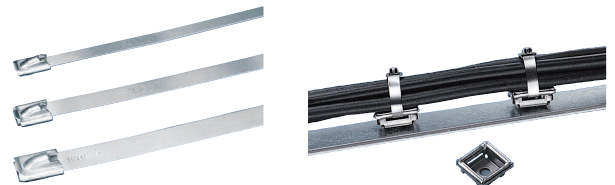
Installs PLT2S, PLT3S, PLT4S, PLT3H, PLT4H cable ties.

## Related Products

### Stainless Steel Cable Ties and Mounts

When strength, vibration, corrosion and temperature extremes are a factor, Stainless Steel Cable Ties and Mounts provide a strong, reliable system for cable bundling and mechanical fastening applications in harsh environments.

- Available in 304 and 316 grade stainless steel
- Cable tie loop tensile strength up to 1,200 Lbs.
- Continuous working temperatures up to 1000°F (538°C)



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Printed in the U.S.A.  
Product Bulletin Number **CTCB64--SA-ENG**  
Replaces SA-CTCB37  
12/2020